

Work Order ID 140900

January 22, 2016 1:48:18 PM

140900

Page 1

Ship Feb 19.

Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: AS350 Cable Cutter System
 Start Date: 1/22/2016 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 2/19/2016 Req'd Qty: 1.00 *1* Customer:

Reference:

Approvals: Process Plan: SW Date: 120160122 Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	B								
100	Document Control	0.00	DAS	6					
100	DOCUMENT CONTROL		9-89						
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

SK 16/02/17

DAS
6
9-89
JAN 25 2016

SK 16/02/17

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: AS350 Cable Cutter System
Start Date: 1/22/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 2/19/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001								
	Location: _____								
	fg 101								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

SMB
16/2/17

MCS FEB 17 2016

MCS FEB 17 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐				Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐				Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐				Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐											
		OTHER : ☐																							

Picklist Print

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Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP
REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301		Manufactured	No				Each	5.0000		1			DAS 6 9-89

646 3301

Upper Cutter Assy

**

Location

Loc Qty

Loc Code

cck018

5

136497

2

140115

3

646.3001

Manufactured No

Each

0.0000

1

646 3001

Lower Cutter Assy

**

DAS
6
9-89

JAN 29 2016

646.2910

Manufactured No

Each

3.0000

1

646 2910

Deflector

**

DAS
6
9-89

JAN 29 2016

Location

Loc Qty

Loc Code

CCK050

3

136136

3

646.3810

Manufactured No

Each

0.0000

2

646 3810

Bracket

**

DAS
6
9-89

FEB 05 2016

646.3510

Manufactured No

Each

1.0000

1

646 3510

Strut

**

FEB 03 2016

Location

Loc Qty

Loc Code

cck104

1

136114

1

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Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

646.3511 Manufactured No

Each 0.0000

646 3511

Strut

**

1

DAS
6
9-89

647.0112 Manufactured No

Each 65.0000

647 0112

Strut Bracket

**

2

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK107

65

M130388

65

647.7703 Manufactured No

Each 10.0000

647 7703

Strut Assembly

**

2

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK114

10

139295

10

NAS1149F0332P Purchased No

Each 1,333.000

NAS1149F0332P

Washer

**

138

DAS
6
9-89

Location

Loc Qty

Loc Code

GA

458

m133709

458

ST262

875

m133709

75

m133938

800

m134055

6

138

JAN 26 2016

MS24694. SSS

2x 132803

NAS1149F0363J

2x 124555

DAS
6
9-89

DAS
6
9-89

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Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

Each

2,836.000

61

MS21042L3

Nut

DAS
6
9-89

DAS

27

Location

Loc Qty

Loc Code

CCK007

2000

m134039

2000

FP001

163

m133790

163

GA

195

m133790

195

ST304

478

m133790

478

646.3110

Manufactured

No

Each

3.0000

1

646 3110

Channel

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck020

3

136492

3

Each

10.0000

1

646.3710

Manufactured

No

646 3710

Doubler

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK002

10

127550

10

Each

5.0000

1

646.3210

Manufactured

No

646 3210

Support

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck020

5

136217

5

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Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

646.3713

Manufactured No

Each

13.0000

1

DAS

6
9-89

DAS
21
9-89

646 3713

Gusset

[Signature]

Location

Loc Qty

Loc Code

cck105

13

120631

1

138216

12

Each

236.0000

5

DAS
6
9-89

DAS
21
9-89

MS24694-S51

Purchased

No

MS24694-S51

Screw

[Signature]

Location

Loc Qty

Loc Code

ST284

236

~~m130928~~

36

~~m133990~~

200

Each

37.0000

1

DAS
6
9-89

DAS
21
9-89

AN3-13A

Purchased

No

AN3-13A

Bolt

[Signature]

Location

Loc Qty

Loc Code

CA

3

m129682

3

GA

20

m127070

20

ST349

14

m131305

14

JAN 26 2016

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Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-4A Purchased No

Each 342.0000 10

AN3-4A

Bolt

**

DAS
6
9-89

Location

Loc Qty

Loc Code

over003

250

m133990

250

ST350

92

m129682

10

m133694

82

Each 116.0000

14

**

132317x9

132 67716

DAS
6
9-89

CR3213-5-3 Purchased No

CR3213-5-3

Cherry Rivet

Location

Loc Qty

Loc Code

ST319

116

m130388

16

m132763

100

Each 87.0000

8

**

DAS
6
9-89

MS20470AD5-5.5 Purchased No

MS20470AD5-5 5

Rivet

Location

Loc Qty

Loc Code

ST309

87

123425

87

Each 21.0000

1

**

DAS
6
9-89

646.3711 Manufactured No

646 3711

Clip

Location

Loc Qty

Loc Code

ckk105

21

120626

21

JAN 26 2016

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Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

646.3712

Manufactured No

Each

11.0000

1

646 3712

Clip

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

11

101119

1

120630

10

Each

7.0000

1

DAS
6
9-89

DAS
27
9-89

646.3811

Manufactured No

646 3811

Radius Block

Location

Loc Qty

Loc Code

CCK106

7

122938

7

Each

229.0000

2

DAS
6
9-89

DAS
27
9-89

AN3-6A

Purchased No

AN3-6A

Bolt

Location

Loc Qty

Loc Code

over003

225

M133561

100

M133932

125

ST306

4

M131305

4

Each

130.0000

1

DAS
6
9-89

DAS
27
9-89

MS24694-S55

Purchased No

MS24694-S55

Screw

Location

Loc Qty

Loc Code

ST283

130

m132803

47

m133988

83

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Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

646.3610 Manufactured No

Each 0.0000

1

646 3610

Filler

646.3714

Manufactured No

Each 3.0000

1

646 3714

Gusset

Location

Loc Qty

Loc Code

cck105

3

120632

3

Each

968.0000

8

MS20470AD5-6

Purchased

No

MS20470AD5-6

RIVET

Location

Loc Qty

Loc Code

CCK004

890

124089

890

ST309

78

105433

78

Each

1.0000

2

646.3812

Manufactured

No

646 3812

Gusset Bracket

Location

Loc Qty

Loc Code

CCK106

1

138194

1

Each

271.0000

4

AN3-3A

Purchased

No

AN3-3A

Bolt

Location

Loc Qty

Loc Code

ST350

271

m131624

101

m133833

70

~~m134034~~

100

140240 FEB 05 2016

DAS 6 27 9-89

DAS 6 27 9-89

DAS 6 27 9-89

DAS 6 27 9-89

DAS 6 27 9-89

DAS 6 27 9-89

DAS 6 27 9-89

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Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

646.3813 Manufactured No

Each 6.0000 1

646 3813

Strut Bracket

[Handwritten Signature]

Location

Loc Qty

Loc Code

CCK106

6

127453

1

138267

5

DAS
6
9-89

[Handwritten Mark]

MS20470AD5-7

Purchased No

Each 509.0000

3

MS20470AD5-7

Rivet

[Handwritten Signature]

Location

Loc Qty

Loc Code

ST309

509

123425

509

DAS
6
9-89

[Handwritten Mark]

MS21047-3

Purchased No

Each 143.0000

18

MS21047-3

Nut Plate

[Handwritten Signature]

Location

Loc Qty

Loc Code

over005

100

m133938

100

ST301

43

m133790

43

DAS
6
9-89

[Handwritten Mark]

CCR264SS3-02

Purchased No

Each 388.0000

36

CCR264SS3-02

Rivet, Cherry

[Handwritten Signature]

Location

Loc Qty

Loc Code

ST321

388

M133790

188

M134023

200

DAS
6
9-89

[Handwritten Mark]
JAN 20 2016

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Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-5A Purchased No

Each 104.0000 2

AN3-5A

Bolt

DAS
6
9-89

6 27
9-89

Location

Loc Qty

Loc Code

FP001

24

m133686

24

ST350

80

m133686

80

646.3715 Manufactured No

Each 19.0000 2

646 3715

Strut Doubler

DAS
6
9-89

6 27
9-89

Location

Loc Qty

Loc Code

cck105

19

139892

19

MS27039-1-12 Purchased No

Each 191.0000 6

MS27039-1-12

Screw

DAS
6
9-89

6 27
9-89

Location

Loc Qty

Loc Code

over006

100

m133988

100

ST280

91

m133483

91

646.3716 Manufactured No

Each 7.0000 1

646 3716

Gauge Bracket

DAS
6
9-89

6 27
9-89

Location

Loc Qty

Loc Code

cck105

7

136410

7

JAN 26 2016

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Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS20426AD5-7

Purchased

No

Each

1,059.000

2

DAS
6
9-89

MS20426AD5-7

RIVET

Location

Loc Qty

Loc Code

ST311

1059

2

M132767
M133922

16

1043

DAS
6
9-89

MS24694-S54

Purchased

No

Each

58.0000

2

MS24694-S54

SCREW

Location

Loc Qty

Loc Code

ST284

58

2

m133134

58

DAS
6
9-89

MS27039-1-21

Purchased

No

Each

375.0000

4

MS27039-1-21

Screw

Location

Loc Qty

Loc Code

over006

241

m127904

241

ST280

134

m127904

134

4

DAS
6
9-89

MS27039-1-20

Purchased

No

Each

172.0000

2

MS27039-1-20

Screw

Location

Loc Qty

Loc Code

ST280

172

124326

172

2

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Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

Each

204.0000

22

MS27039-1-19

Screw

**

DAS 6 9-89
JAN 26 2016

Location

Loc Qty

Loc Code

over006

100

m133932

100

ST280

104

m133134

4

m133938

100

646.3717

Manufactured

No

Each

2.0000

1

646 3717

Doubler

**

138/75

DAS 6 9-89

Location

Loc Qty

Loc Code

cck105

2

120633

2

646.3718

Manufactured

No

Each

13.0000

2

646 3718

Custom Washer

**

DAS 6 9-89

Location

Loc Qty

Loc Code

cck105

13

136223

13

646.3719

Manufactured

No

Each

19.0000

2

646 3719

Doubler

**

DAS 6 9-89
JAN 26 2016

Location

Loc Qty

Loc Code

cck105

19

139893

19

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Work Order ID: 140900

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140900

646 4001

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

Each

148.0000

2

MS27039-1-10

SCREW

**

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

57

m132677

57

Each

195.0000

10

AN3-11A

Purchased

No

AN3-11A

Bolt

**

Location

Loc Qty

Loc Code

over003

100

m133992

100

ST349

95

m133561

95

Each

26.0000

1

600.0990

Purchased

No

6000 0990

Magnabond 6398 Part A

**

Location

Loc Qty

Loc Code

CA2

12

M133800

12

PKG

14

M133938

12

M131589

2

2/11/2016

JAN 25 2016

Picklist Print

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Page 13

Work Order ID: 140900

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140900

646 4001

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

600.0991 Purchased No

Each 26.0000 1

600 0991

MAGNOBOND 6398 PART B

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CA2

12

m133800

12

PKG

14

m133938

12

m131589

2

2/11/2016

600.1012 Purchased No

Each 25.0000 1

600 1012

Sealant PR1425B2 (#654 sem)

**

DAS
6
9-89

Location

Loc Qty

Loc Code

cck017

24

m133800

8

m133938

8

m133992

8

cck018

1

m131364

1

10/30/2015

600.0129 Purchased No

f 501.0000 8

600 0129

VHB TAPE 75935A651

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK095

501

m127920

301

m131311

200

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Page 14

Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

600.1013 Purchased No

Each 850.0000 5

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

DAS

6

9-89

2

9-89

Location

Loc Qty

Loc Code

CCK095

850

m131145

850

6/15/2016

646.3910 Manufactured No

Each 32.0000 4

646 3910

Shim

DAS

6

9-89

Location

Loc Qty

Loc Code

CCK106

32

136478

32

646.3911 Manufactured No

Each 61.0000 1

646 3911

Shim

DAS

6

9-89

Location

Loc Qty

Loc Code

cck104

17

126229

17

CCK106

44

126059

44

646.3912 Manufactured No

Each 16.0000 4

646 3912

Shim

DAS

6

9-89

Location

Loc Qty

Loc Code

cck023a

10

124501

10

CCK106

6

123143

6

JAN 25 2016

Picklist Print

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Page 15

Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

646.3913

Manufactured No

Each

100.0000

1

646 3913

Shim

DAS

6

9-89

LocationLoc QtyLoc Code

cck023aq

81

126060

81

CCK106

19

124108

19

Each

87.0000

2

DAS

6

9-89

AN3-12A

Purchased

No

AN3-12A

Bolt

LocationLoc QtyLoc Code

GA

2

m129682

2

ST349

85

m133064

16

m133234

69

Each

318.0000

24

DAS

6

9-89

MS27039-1-16

Purchased

No

MS27039-1-16

Screw

LocationLoc QtyLoc Code

ST280

318

m131317

18

mm134023

300

Each

13.0000

2

DAS

6

9-89

650.9201

Manufactured

No

650 9201

Eyelet Bracket Assembly

LocationLoc QtyLoc Code

cck127

13

136606

13

JAN 25 2016

Picklist Print

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Page 16

Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

AN44-5A

Purchased

No

Each

26.0000

2

AN44-5A

Eyebolt

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST339

26

m133134

2

m133790

12

m133990

12

AN665-34R

Purchased

No

Each

48.0000

2

AN665-34R

Clevis

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST330

48

M133523

28

M134029

10

st330

10

AN4C7A

Purchased

No

Each

106.0000

2

AN4C7A

BOLT

**

DAS
6
9-89

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST340

16

m133363

16

ST345

70

m133790

20

m133990

50

JAN 25 2016

Picklist Print

Page 17

January 22, 2016 1:48:24 PM

Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0432P

Purchased

No

Each

1,618.000

4

DAS
6
9-89

DAS
27
9-89

NAS1149F0432P

WASHER

Location

Loc Qty

Loc Code

ST260a

1000

M133990

1000

ST262

493

M133938

493

st268

125

M132677

125

Each

2,182.000

2

DAS
6
9-89

DAS
27
9-89

MS21042L4

Purchased

No

MS21042L 4

Locknut

Location

Loc Qty

Loc Code

FP001

41

m133363

41

GA

26

m127813

26

ST303

2018

m133769

2018

ST305

97

m130922

97

Each

79.0000

2

DAS
6
9-89

DAS
27
9-89

AN316C4R

Purchased

No

AN316C4R

NUT

Location

Loc Qty

Loc Code

ST331

79

m133234

43

m133523

36

JAN 25 2016

Picklist Print

January 22, 2016 1:48:24 PM

Page 18

Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042-3 MS21042L3 Purchased No

Each 18.0000 2

MS21042-3

Nut / use MS21042L3

133790

Location

Loc Qty

Loc Code

ST304

18

M129682

18

MS27039-08-13

Purchased No

Each 318.0000

2

MS27039-08-13

Screw

Location

Loc Qty

Loc Code

ST278

318

124326

318

MS21042-08

MS21042L08

Purchased No

Each 33.0000

2

MS21042-08

USE MS21042L08

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

NAS1149FN832P

Purchased No

Each 3,821.000

4

NAS1149FN832P

Washer

Location

Loc Qty

Loc Code

GA

2231

M133316

16

M133769

2215

ST262

1590

M133709

1590

JAN 25 2016

Picklist Print

Page 19

January 22, 2016 1:48:24 PM

Work Order ID: 140900

140900

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS24693-C278

Purchased

No

Each

75.0000

5

DAS

6

9-89

S

9-89

MS24693-C278

Screw

[Signature]

Location

Loc Qty

Loc Code

ST287

75

m133998

75

Each

0.0000

1

JAN 25 2016

646.9410

Manufactured

No

646 9410

Shim

DAS

22

9-89

Per attached email

16.02.17

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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 INSTALL F/N 14 WITH F/N 52 & 53.
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 75935A651.
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.
- 5 REUSE FASTENERS FROM F/N 1.
- 6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.
- 8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.
- 9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

20160122

SH 140900

5	5	5	78	601.3875	SCREW	H20492274				
1	1	1	77	646.9410	SHIM	HAS1149F0303P				
	4	4	76	601.2764	WASHER	HAS1149F0303P				
	2	2	75	601.2973	LOCKNUT	MS21042-08				
	2	2	74	601.2988	SCREW	MS27039-0813				
	2	2	73	601.2943	LOCKNUT	MS21042-3				
	2	2	72	601.3128	NUT	AN316C4R				
	2	2	71	601.3209	LOCKNUT	MS21042-4				
	4	4	70	601.2638	WASHER	HAS1149F0430P				
	2	2	69	601.2669	BOLT	AN4C7A				
	2	2	68	601.3119	CLEVIS	AN465-34R				
	2	2	67	601.3121	EYE BOLT	AN46-5A				
		2	66	650.9201	EYE BRACKET ASSY					
	REF	REF	65	647.5701	GPS MOUNT KIT					
		2	64	601.3151	WASHER	HAS1149F0303P				
		2	63	601.2911	SCREW	MS24694553				
	24	24	62	601.2637	SCREW	MS27039-1-16				
2	2	2	61	601.2763	BOLT	AN3-12A				
	1	1	60	646.3913	SHIM					
	4	4	59	646.3912	SHIM					
	1	1	58	646.3911	SHIM					
	4	4	57	646.3910	SHIM					
	5	5	56	600.1013	PRIMER					
	8 FT	8 FT	55	600.0129	VHB TAPE					
	1	1	54	600.1012	SEALANT	PR-1425 CLASS B				
	1	1	53	600.0991	MAGNOBOND 6398 PART B					
	1	1	52	600.0990	MAGNOBOND 6398 PART A					
6	10	10	51	601.2826	BOLT	AN3-11A				
		2	50	646.3814	WIPER BRACKET					
		2	49	601.2910	SCREW	MS27039-1-18				
	2	2	48	601.1365	SCREW	MS27039-1-10				
	2	2	47	646.3719	DOUBLER					
	2	2	46	646.3718	CUSTOM WASHER					
	1	1	45	646.3717	DOUBLER					
	22	2	44	601.1948	SCREW	MS27039-1-19				
	2	2	43	601.1952	SCREW	MS27039-1-20				
	4	4	42	601.1956	SCREW	MS27039-1-21				
4006	4005	4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECHS 02199, 02351, 02719 & 02745	03/08/2010	P. BRAVO
B	INCORPORATED ECHS 03044, 03079 & 04731	11/04/2014	P. BRAVO
C	INCORPORATED ECHS 05098	09/09/2015	P. BRAVO

		2		2	41	601.2829	SCREW	MS24694554		
		2		2	40	601.2831	RIVET	MS20476AD5-7		
		1		1	39	646.3716	GAUGE BRACKET			
		6		6	38	601.1953	SCREW	MS27039-1-12		
	2			2	37	646.3715	STRUT DOUBLER			
	2	2		2	36	601.2824	BOLT	AN3-5A		
12	36			36	35	601.2277	RIVET	CCR5455-3-02		
6	18			18	34	600.0795	NUT/PLATE	MS21047-3		
3	3			3	33	601.2565	RIVET	MS20470AD5-7		
1	1			1	32	646.3813	STRUT BRACKET			
4	4			4	31	601.2822	BOLT	AN3-3A		
2	2			2	30	646.3812	GUSSET BRACKET			
8	8			8	29	601.2564	RIVET	MS20470AD5-6		
1	1			1	28	646.3714	GUSSET			
	1	1		1	27	646.3610	FILLER			
	3	3		3	26	601.2830	SCREW	MS24694555		
	2	2		2	25	601.2825	BOLT	AN3-6A		
	1	1		1	24	646.3811	RADIUS BLOCK			
	1		1	1	23	646.3712	CLIP			
	1		1	1	22	646.3711	CLIP			
8		8		8	21	601.2832	RIVET	MS20470AD5-5		
14		14		14	20	601.2020	RIVET	CR3213-5-3		
4	6	4	6	10	19	601.2823	BOLT	AN3-4A		
	1		1	1	18	601.2827	BOLT	AN3-13A		
	5		5	5	17	601.2912	SCREW	MS24694551		
1		1		1	16	646.3713	GUSSET			
1		1		1	15	646.3210	SUPPORT			
		1		1	14	646.3710	DOUBLER			
	1		1		13	646.3110	CHANNEL			
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS21042-3	
16	32	18	120	16	144	11	601.1607	WASHER	HAS1149F0303P	
					10		646.3410	LH WIPER DEFLECTOR		
				1	9		646.3411	RH WIPER DEFLECTOR		
			2		8		647.7703	STRUT ASSY		
			2		7		647.0112	STRUT BRACKET		
	1		1		6		646.3511	STRUT		
	1		1		5		646.3510	STRUT		
2		2			4		646.3810	BRACKET		
			1		3		646.2910	DEFLECTOR		
	1		1		2		646.3001	LOWER CUTTER ASSY		
			1		1		646.3301	UPPER CUTTER ASSY		
X							646.4006	LOWER CUTTER FIXED PROVISIONS		
	X						646.4005	LOWER CUTTER REMOVABLE PROVISIONS		
		X					646.4004	FIXED PROVISIONS KIT		
			X				646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS		
				X			646.4002	AS350 WIPER DEFLECTOR KIT		
					X		646.4001	AS350 CABLE CUTTERS KIT		
4006	4005	4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

NEXT ASSY (S)		ORIGINAL DATE (MM-DD-YY)	08-27-08
		DRAWN BY	S. HUFF
		CHECKED BY	P. BRAVO
		DRAWING APPROVAL	P. BRAVO
		DATE	08-27-08
		CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
DART 3030 ENTERPRISE CT., SUITE A 4200 S. PACIFIC AVE. VISTA, CA 92081 (760) 724-5300		AS350 CABLE CUTTERS KIT	
REV. C	SCALE NONE	SHEET 1 OF 5	

1 2 3 4 5 6 7 8

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 WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

A

DETAIL A

DETAIL C

646.4002

646.4001

DETAIL B

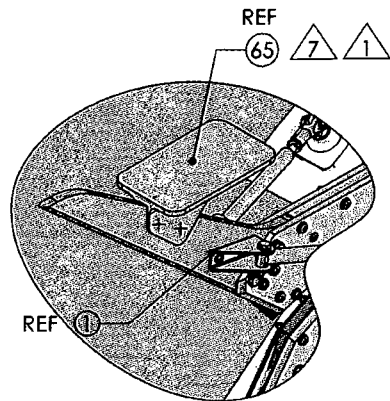
B

C

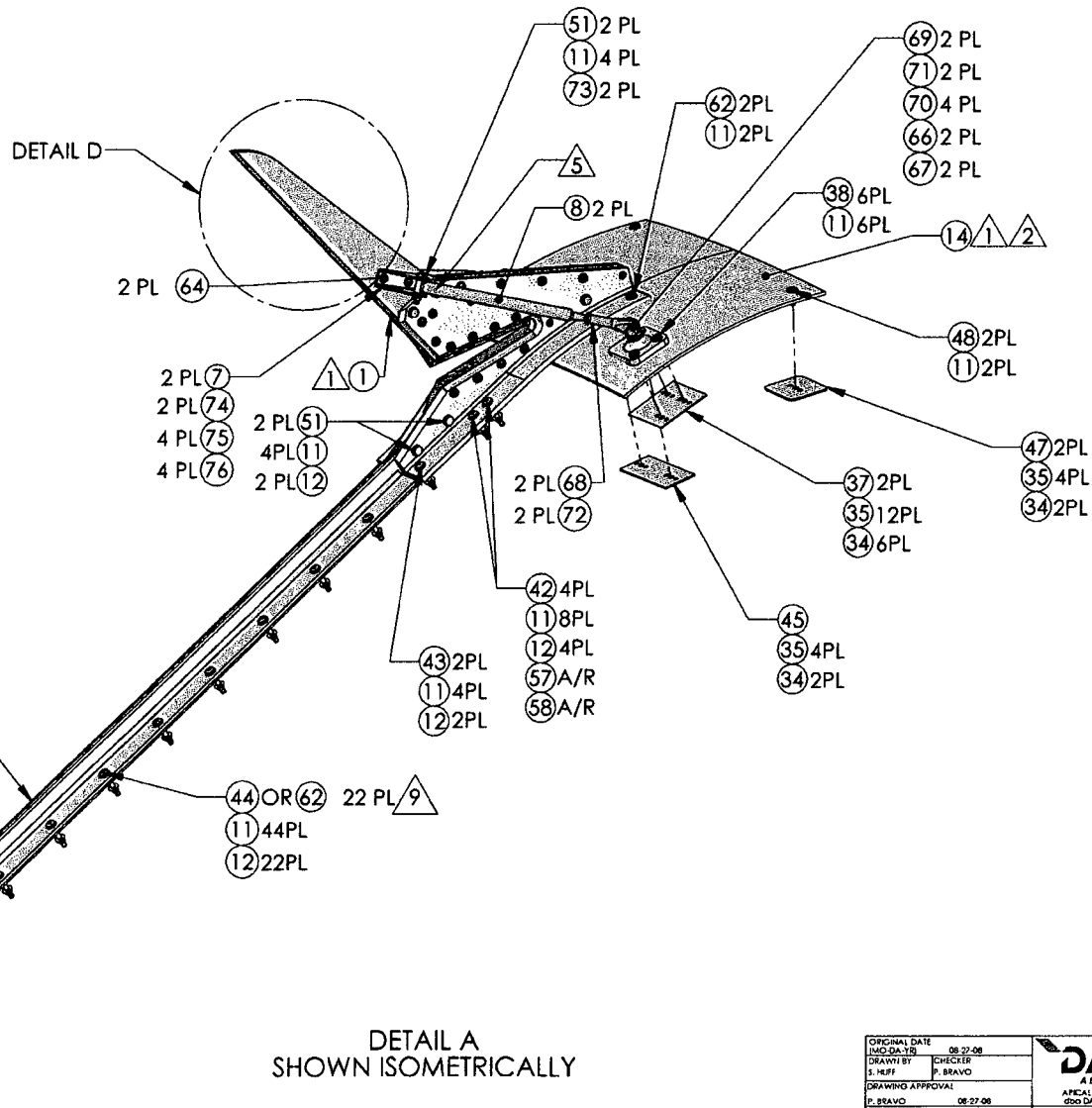
D

ORIGINAL DATE (MM-DD-YR) 06-27-08		DART 3030 ENTERPRISE CT., SUITE A	
DRAWN BY S. HUFF P. BRAVO		VISTA, CA. 92081 (760)-724-5300	
DRAWING APPROVAL P. BRAVO 06-27-08		APICAL INDUSTRIES INC. 8900 DART AEROSPACE	
CONTRACT NO.		AS350 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±0.10 3 PLACE DECIMALS ±0.05 ANGLES ± 5°			
SIZE B	CAGE CODE 07M16	DWG. NO. 646.4000	REV. C
SCALE NONE		SHEET 2 OF 5	

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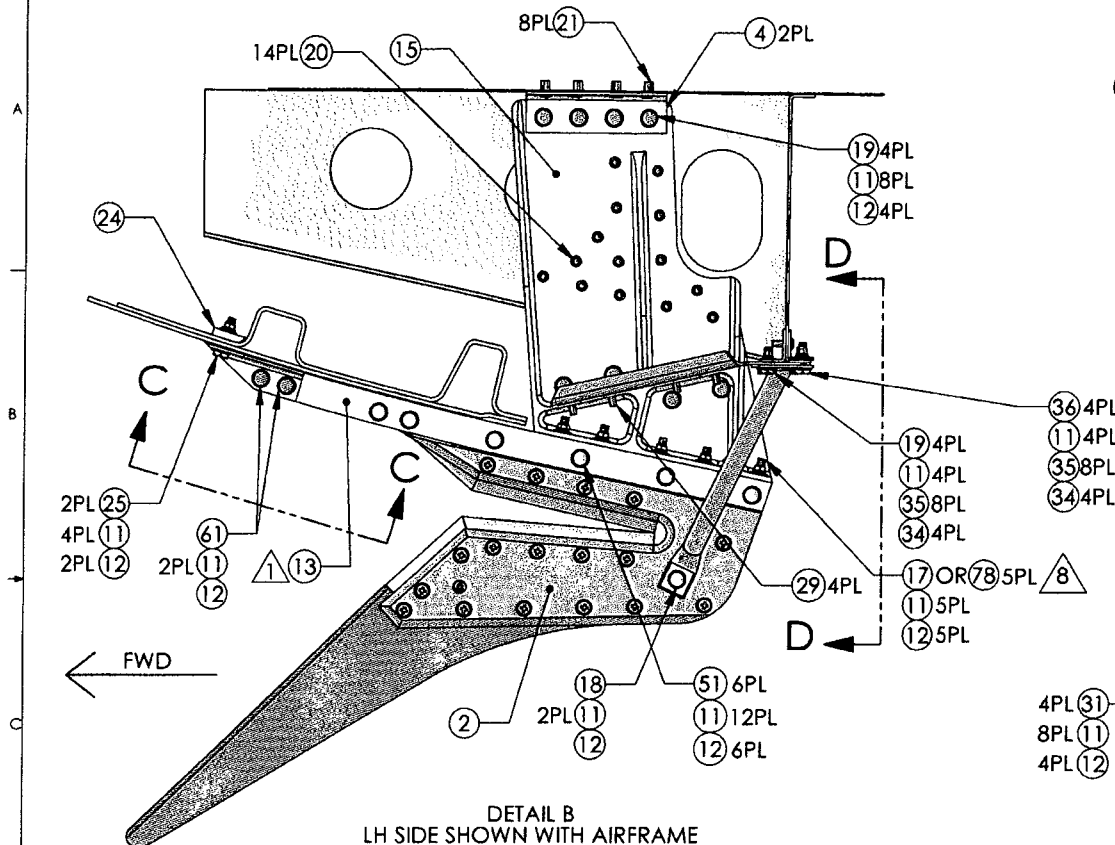
DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION



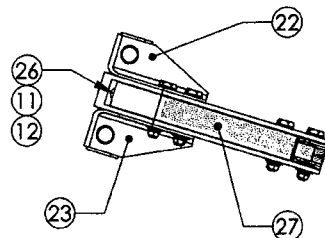
DETAIL A
SHOWN ISOMETRICALLY

ORIGINAL DATE 1/10/08-1/10/08		08-27-08	
DRAWN BY S. HEFF	CHECKER P. BRAVO	P. BRAVO	
DRAWING APPROVAL P. BRAVO		08-27-08	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5° DART AEROSPACE APICAL INDUSTRIES INC. DBA DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA, 92081 (760) 724-5300			
AS350 CABLE CUTTERS KIT			
SHEET B	CAGE CODE 07M26	DWG. NO. 646.4000	REV. C
SCALE NONE		SHEET 3 OF 3	

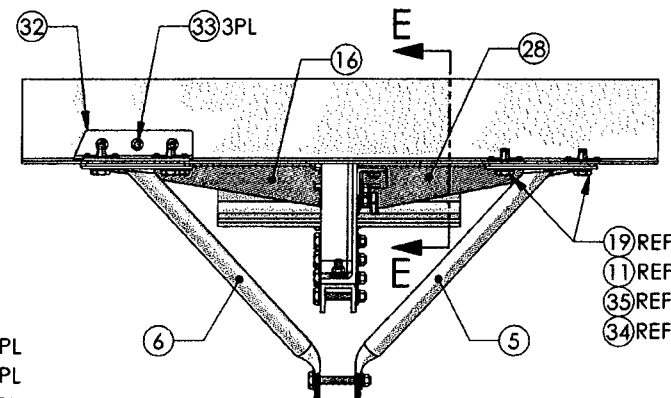
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



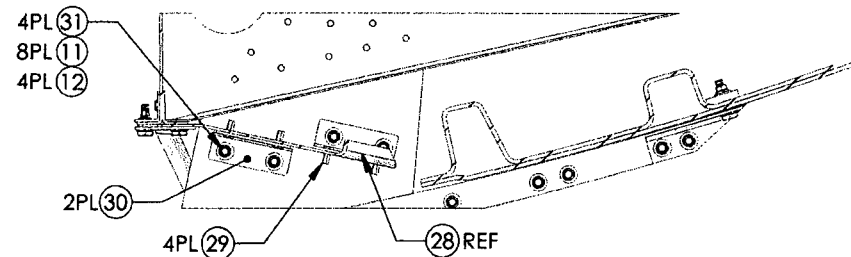
DETAIL B
LH SIDE SHOWN WITH AIRFRAME



SECTION C-C



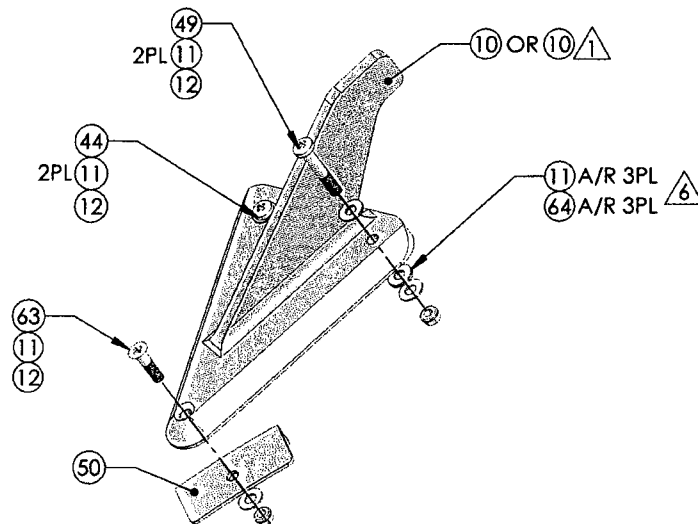
SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

ORIGINAL DATE JUN 04/13 06-27-08		DART 3030 ENTERPRISE CT., SUITE A	
DRAWN BY S. HUFF	DESIGNED BY P. BRAVO	AEROSPACE VISTA, CA. 92081 (760)-724-5300	
DRAWING APPROVAL: P. BRAVO 06-27-08		APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
CONTRACT NO.		AS350 CABLE CUTTERS KIT	
SIZE B	CAGE CODE 07M26	DWG. NO. 646.4000	REV. C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE SHEET 4 OF 5	

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DIA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
WRITTEN PERMISSION OF APICAL INDUSTRIES DIA DART AEROSPACE IS PROHIBITED.



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE (MO-DA-YR) 08-27-08		DART 3030 ENTERPRISE CT. AEROSPACE SUITE A VISTA, CA 92081 (760)-724-5300 APICAL INDUSTRIES, INC. DIA DART AEROSPACE	
DRAWN BY S. HUFF	CHECKED BY P. BRAVO		
DRAWING APPROVAL P. BRAVO 08-27-08			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.5°		AS350 CABLE CUTTERS KIT	
SHEET B	CAGE CODE 07M26	DWG. NO. 646.4000	REV. C
SCALE NONE		SHEET 5 OF 5	

8

16/02/17

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NOTES:

- △ AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- △ INSTALL F/N 14 WITH F/N 52 & 53.
- A 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 75935A651.
- △ 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.
- △ REUSE FASTENERS FROM F/N 1.
- △ USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.
- △ AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.
- △ INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.
- B NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

REFERENCE ONLY

	5	5	5	78	601.3875	SCREW	MS27039-1-10
	1	1	1	77	646.9410	SHIM	AN3-11A
		4	4	76	601.2764	WASHER	AN311490363P
		2	2	75	601.2973	LOCKNUT	MS21042-08
		2	2	74	601.2988	SCREW	MS27039-0813
		2	2	73	601.2943	LOCKNUT	MS21042-3
		2	2	72	601.3128	NUT	AN316C4R
		2	2	71	601.3209	LOCKNUT	MS21042-4
		4	4	70	601.2638	WASHER	AN311490433P
		2	2	69	601.2669	BOLT	AN4C7A
		2	2	68	601.3119	CLEVIS	AN665-34R
		2	2	67	601.3121	EYE BOLT	AN44-5A
		2	2	66	650.9201	EYE BRACKET ASSY	
	REF	REF	REF	65	647.5701	GPS MOUNT KIT	
			2	64	601.3151	WASHER	AN311490363P
			2	63	601.2911	SCREW	MS24694553
		24	24	62	601.2637	SCREW	MS27039-1-16
	2	2	2	61	601.2763	BOLT	AN3-12A
		1	1	60	646.3913	SHIM	
		4	4	59	646.3912	SHIM	
		1	1	58	646.3911	SHIM	
		4	4	57	646.3910	SHIM	
		5	5	56	600.1013	PRIMER	
		8 FT	8 FT	55	600.0129	VHB TAPE	
		1	1	54	600.1012	SEALANT	PR-125 CLASS B
		1	1	53	600.0991	MAGNETIC QND 6398 PART B	
		1	1	52	600.0990	MAGNETIC QND 6398 PART A	
	6	10	10	51	601.2826	BOLT	AN3-11A
			2	50	646.3814	WIPER BRACKET	
			2	49	601.2910	SCREW	MS27039-1-18
		2	2	48	601.1365	SCREW	MS27039-1-10
		2	2	47	646.3719	DOUBLER	
		2	2	46	646.3718	CUSTOM WASHER	
		1	1	45	646.3717	DOUBLER	
		22	22	44	601.1948	SCREW	MS27039-1-19
		2	2	43	601.1952	SCREW	MS27039-1-20
		4	4	42	601.1956	SCREW	MS27039-1-21
	4006	4005	4004	4003	4002	4001	FIND # PART # DESCRIPTION MATL SPEC.

REV	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECHG 02/19/02 02/19/02 02/19/02 02/19/02	02/19/02	P. BRAVO
B	INCORPORATED ECHG 02/19/02 02/19/02 02/19/02 02/19/02	02/19/02	P. BRAVO
C	INCORPORATED ECHG 02/19/02 02/19/02 02/19/02 02/19/02	02/19/02	P. BRAVO

		2	2	41	601.2829	SCREW	MS24694554			
		2	2	40	601.2831	RIVET	MS20436AD5-7			
		1	1	39	646.3716	GAUGE BRACKET				
		6	6	38	601.1953	SCREW	MS27039-1-12			
	2	2	2	37	646.3715	STRUT DOUBLER				
		2	2	36	601.2824	BOLT	AN3-5A			
12	36		36	35	601.2277	RIVET	CCR2443-3-09			
6	18		18	34	600.0795	NUTPLATE	MS21047-3			
3	3		3	33	601.2565	RIVET	MS20470AD5-7			
1	1		1	32	646.3813	STRUT BRACKET				
4	4		4	31	601.2822	BOLT	AN3-3A			
2	2		2	30	646.3812	GUSSET BRACKET				
8	8		8	29	601.2564	RIVET	MS20470AD5-6			
1	1		1	28	646.3714	GUSSET				
	1	1	1	27	646.3610	FILLER				
	3	3	3	26	601.2830	SCREW	MS24694555			
	2	2	2	25	601.2825	BOLT	AN3-6A			
	1	1	1	24	646.3811	RADIUS BLOCK				
	1	1	1	23	646.3712	CLIP				
	1	1	1	22	646.3711	CLIP				
8	8		8	21	601.2832	RIVET	MS20470AD5-5			
14	14		14	20	601.2020	RIVET	CR3213-5-3			
4	6	4	6	10	601.2823	BOLT	AN3-4A			
	1	1	1	18	601.2827	BOLT	AN3-13A			
	5	5	5	17	601.2912	SCREW	MS24694551			
1	1		1	16	646.3713	GUSSET				
1	1		1	15	646.3210	SUPPORT				
	1	1	1	14	646.3710	DOUBLER				
	1	1	1	13	646.3110	CHANNEL				
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS21047-3	
16	32	18	120	16	144	11	601.1607	WASHER	MS114910332P	
				10	646.3410	LH WIPER DEFLECTOR				
			1	9	646.3411	RH WIPER DEFLECTOR				
		2	2	8	647.7703	STRUT ASSY				
		2	2	7	647.0112	STRUT BRACKET				
	1	1	1	6	646.3511	STRUT				
	1	1	1	5	646.3510	STRUT				
2	2		2	4	646.3810	BRACKET				
		1	1	3	646.2910	DEFLECTOR				
	1	1	1	2	646.3001	LOWER CUTTER ASSY				
		1	1	1	646.3301	UPPER CUTTER ASSY				
X					646.4006	LOWER CUTTER FIXED PROVISIONS				
	X				646.4005	LOWER CUTTER REMOVABLE PROVISIONS				
		X			646.4004	FIXED PROVISIONS KIT				
			X		646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS				
				X	646.4002	AS350 WIPER DEFLECTOR KIT				
				X	646.4001	AS350 CABLE CUTTERS KIT				
.4006	.4005	.4004	.4003	.4002	.4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

QTY		PARTS LIST	
NEXT ASSY (S)		ORIGINAL DATE: 08-27-08 DRAWN BY: [] CHECKED BY: [] P. BRAVO DRAWING APPROVAL: [] P. BRAVO 08-27-08	
		DART 3030 ENTERPRISE CT., SUITE A AEROSPACE VISTA, CA. 92081 APICAL INDUSTRIES INC. (P) 607-724-5300 DBA DART AEROSPACE	
		AS350 CABLE CUTTERS KIT DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.005 1 PLACE DECIMALS ±.003 ANGLES ±.5°	
SER	CAGE CODE	QTY	REV.
8	07M26	646.4000	C
SCALE: NONE		SHEET 1 OF 5	

Shirley Hay

From: David Duval
Sent: February 16, 2016 11:22 AM
To: Shirley Hay; Mario Poulin
Subject: FW: 646.9410 Shim

DAVID DUVAL
Production Engineering Coordinator

From: David Duval
Sent: February-03-16 1:58 PM
To: Mario Poulin <mpoulin@dartaero.com>
Subject: FW: 646.9410 Shim

Got it

DAVID DUVAL
Production Engineering Coordinator

From: Mario Poulin
Sent: January-07-16 2:02 PM
To: David Duval <dduval@dartaero.com>
Subject: FW: 646.9410 Shim

Fyi,

Not a show stopper for now, CCK350 (Shim)

Mario,

From: Marc Bellavance
Sent: Thursday, January 07, 2016 1:40 PM
To: Mario Poulin <mpoulin@dartaero.com>
Subject: FW: 646.9410 Shim

Hey Mario,

Here's your answer. I'm thinking that if a customer is requiring a shim we can follow up with a no charge shim or advise that he fabricate his own.

Marc

From: Jacob Becker
Sent: January-07-16 1:12 PM
To: Marc Bellavance <mbellavance@dartaero.com>; Lisa Mansfield <lmansfield@dartaero.com>

Cc: Mario Poulin <mpoulin@dartaero.com>; Sian Willems <swillems@dartaero.com>
Subject: RE: 646.9410 Shim

It's not a show stopper. Currently we advise the customer that they need to shim it if OEM provisions are installed. I have just now included the shim in the kit.

Jacob

From: Marc Bellavance
Sent: Thursday, January 07, 2016 8:59 AM
To: Lisa Mansfield <lmansfield@dartaero.com>; Jacob Becker <JBecker@dartaero.com>
Cc: Mario Poulin <mpoulin@dartaero.com>; Sian Willems <swillems@dartaero.com>
Subject: 646.9410 Shim

Lisa/Jacob,

You guys have introduced this laminated aluminum shim as part of our AS350 CCK kits for use when installing in conjunction with OEM fixed provisions. Seems like we're having a hard time sourcing this part and/or with its manufacturing (cutting this on the waterjet to 0.50" wide is far from ideal). Is this something you guys have in stock or can acquire easily? Also, is this a show stopper for all orders in WIP and others about to ship?

Please advise.

Thanks,
Marc